

What is claimed is:

1. A tool for removal of a damaged spark/glow plug having an electrode end, an electrical connector end, and an insulator therebetween, the plug further having a damaged or missing wrench-engaging member having a pre-damaged width-across-corners diameter and disposed between the insulator and the electrode end, the plug further having a body adjacent the wrench-engaging member or a position previously occupied by the wrench engaging member, the body having a reduced diameter from the wrench-engaging member width-across-corners diameter, the tool comprising:
  - 5 10 a plug engaging end having an interior surface having a geometry adapted to cut into the body of the spark/glow plug; and an end opposed to the plug engaging end and adapted to be matingly engageable with a wrench.
  - 15 2. The tool as defined in claim 1 wherein the geometry of the interior surface comprises a left-hand thread having a sharp rib.
  - 20 3. The tool as defined in claim 2 wherein the geometry of the interior surface comprises at least one flute.
  4. The tool as defined in claim 1 wherein the geometry of the interior surface comprises a plurality of splines having sharp apexes.
  - 25 5. The tool as defined in claim 4, comprising between about 5 and about 35 of the splines.
  6. The tool as defined in claim 1 wherein the end opposed to the plug engaging end has a hexagonal geometry.

7. The tool as defined in claim 1 wherein the end opposed to the plug engaging end has a square geometry.
8. The tool as defined in claim 1 wherein the plug engaging end is adapted to engage the plug in low tool clearance areas.
9. A kit for removal of a damaged spark/glow plug having an electrode end, an electrical connector end, and an insulator therebetween, the plug further having a damaged or missing wrench-engaging member having a pre-damaged width-across-corners diameter and disposed between the insulator and the electrode end, the plug further having a body adjacent the wrench-engaging member or a position previously occupied by the wrench engaging member, the body having a reduced diameter from the wrench-engaging member width-across-corners diameter, the kit comprising:
  - 15 a plurality of tools adapted to remove spark/glow plugs of varying sizes, each of the plurality of tools comprising:
    - a plug engaging end having an interior surface with a predetermined diameter and a geometry adapted to cut into the body of one size of the spark/glow plugs; and
  - 20 an end opposed to the plug engaging end and adapted to be matingly engageable with a wrench.
10. The kit as defined in claim 9 wherein the geometry of the interior surface comprises a left-hand thread having a sharp rib.
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11. The kit as defined in claim 10 wherein the geometry of the interior surface comprises at least one flute.
12. The kit as defined in claim 9 wherein the geometry of the interior surface comprises a plurality of splines having sharp apexes.
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13. The kit as defined in claim 12, comprising between about 5 and about 35 of the splines.

5        14. The kit as defined in claim 9 wherein the end opposed to the plug engaging end has a hexagonal geometry.

15. The kit as defined in claim 9 wherein the end opposed to the plug engaging end has a square geometry.

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16. The kit as defined in claim 9 wherein the plug engaging end is adapted to engage the plug in low tool clearance areas.